5(3)

AUTHORS: Pushkareva, Z. V., Latosh, H. I.

SOY/ 20-123-4-35/53

TITLE:

Diacyl Derivatives of Phenyl Hydrazine (Diatsilproizvodnyye fenilgidrazina) On the Problem of the Relation Between the Chemical Structure and the Analgesic Effect (K voprosu vzaimosvyazi khimi-

cheskogo stroyeniya i anal'geziruyushchego deystviya)

PERIODICAL:

Doklady Akademii nauk SSSR, 1958, Vol 123, Nr 4,

pp 700 - 703 (USSR)

ABSTRACT:

The anodynes (anaesthetics) used in modern medicine, such as antipyrine and pyramidon, unfortunately have a harmful side effect on the human organism. The experiments for the production of pyramidon-N-oxide in 1929 (Ref 5) caused the authors to synthesize the derivatives (of phenyl hydrazine of the complete formula III) mentioned in the title. The aim of this work was to find some less toxic products such as the dioxy pyramidon (II) which was unexpectedly produced in the place of the N-oxide of pyramidon. The first group of the obtained simple substances consisted of "skeleton substances". Their R₁, R₂, and R₃ were

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were methyl and phenyl radicals in all possible combinations:

Diacyl Derivatives of Phenyl Hydrazine. On the Problem of SOV/20-123-4-35/53 the Relation Between the Chemical Structure and the Analgesic Effect

(IV) to (IX). By their means the effect of the relatively simple structural transformations in the $\alpha-$ and $\beta-$ acyl radicals of phenyl hydrazine on the properties of the molecules could be traced. Furthermore, various substituents were introduced into the nucleus of the benzoyl radical (Rz) of the second group (derivatives of α-benzoyl-β-acetyl-β-methyl-phenyl hydrazine (VIII). A number of substances were formed which were structurally related to the benzoyl radical (complete formula (X)), namely from (XI) to (XIII). As there was no benzoyl derivative with electron acceptor substituent in the nucleus the α -isonicotyl- β acetyl- β -methyl-phenyl hydrazine (XIV) was synthesized. The compounds (XV) and (XVI) were obtained supplementary on the second group. The a-acyl radical also contained the phenyl radical, however, it was not directly connected with the carbonyl group but separated from it. In (XVI) the separating group was a head of the conjugation (-CH=CH-), in (XV) it broke the conjugation chain (-CH2-). The substance (XV) is something like a partly hydrated dioxy pyramidon (II) and in the α -position contains a dialkyl amino acetyl radical instead of an oxamide residue. Phenyl hydrazine or hydrazo benzene served for all

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Diacyl Derivatives of Phenyl Hydrazine. On the Problem of SOV/20-123-4-35/53 the Relation Between the Chemical Structure and the Analgesic Effect

these syntheses as initial materials. From them the further materials were produced according to schemes (I) and (II). Dioxy pyramidon is difficult to crystallize (Refs 5,6). This is correct for all synthesized clacyl derivatives to a higher or lower degree, whereas the monoacyl products ((XVIII) and others) were easily crystallized and purified. For this reason the second scheme (II) was employed in the syntheses. The optimum conditions of a partial deacylation (Ref 7) were investigated. They made it possible to produce (XVIII) in a yield of 85-86%. Table 1 gives the properties of the hitherto undescribed synthetic substances. The physico-chemical properties were separately published. The analgesic effect is studied at the Sverdlovskiy gosudarstvennyy meditsinskiy institut, kafedra farmakologii (Sverdlovsk State Medical Institute, Chair of Pharmacology). According to the results available (Ref 12) the substances of the type (X) are the best. There are 1 table and 12 references, 2 of which are Soviet.

card 3/4

Diacyl Derivatives of Phenyl Hydrazine. On the Problem of SOV/20-123-4-35/53 the Relation Between the Chemical Structure and the Analgesic Effect

ASSOCIATION: Ural'skiy politekhnicheskiy institut im. S. M. Kirova (Ural Polytechnical Instituto imeni S. M. Kirov)

November 20, 1956, by I. N. Nazarov, Academician PRESENTED:

October 12, 1958 SUBMITTED:

Card 4/4

CIA-RDP86-00513R000928810005-8" APPROVED FOR RELEASE: 06/20/2000

LATOSH, N.I., Cand Chem Sci -- (diss) "Study of a number of diacyl derivatives of hydrazine. In the problem of the interrelation of chemical structure and analgetic action)." Sverdlovsk,
1959, 17 pp with graphs (Min of migher Education USSR. Ural)
Polytechnical Inst im S.M. Kirov) 150 copies (KL, 28-59, 123)

- 21 -

5(3) AUTHORS:

Latosh, N. I., Pushkareva, Z. V.

SOV/20-124-1-27/69

TITLE:

Chemical Structure and Some Properties of Diacyl Derivatives

SOURCE SERVICE SERVICE

of Phenylhydrazine (Khimicheskoye stroyeniye i nekotoryye

svoystva diatsilproizvodnykh fenilgidrazina)

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 124, Nr 1,

pp 98 - 101 (USSR)

ABSTRACT:

The authors described derivatives of the type mentioned in the title with a total formula (I) (Ref 1). They are analogous to the analgesic dioxy-pyramidon (II) which is less toxic than pyramidon but not inferior as to the analgesic effect. In addition to pharmacological investigations the authors determined the absorption spectra in the ultraviolet region and the dipole moments of the substances synthesized. From these spectra of the mono and diacyl hydrazines (R₁ being both substituted on the β -nitrogen atom and not substituted) the influence of various radicals R₁, R₂ and R₃ upon the electronic structure of the molecules as a whole could be recognized. The spectra of 30 substances, 22 of which for the first time,

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Chemical Structure and Some Properties of Diacyl Derivatives of Phenylhydrazine

SOV/20-124-1-27/69

were taken. It can be seen from figure 1 that the spectrum of the non-substituted hydrazine (Curve 1) doesnot differ from that of aniline (Curve 2) as to the shape of the curve. The second maximum of the phenylhydrazine, however, is shifted by 6 mm in the direction of the long waves. The introduction of an acetyl group near the β-nitrogen atom exerts but little influence on the optical properties of the molecule (Curve 3). An acetyl on the a-nitrogen atom, on the other hand, causes a considerable variation of the spectrum (Curve 5), as compared with the non-substituted phenylhydrazine. The absorption maximum for a-acetyl-phenylhydrazine lies within the same region as that for acetanilide (Curve 4) and differs by the intensity only. In the case of the α,β -diacyl hydrazines the character of the ultraviolet spectrum depends considerably on the chemical structure of the R2-radical in the α-acyl radical (Fig 2). If substituents occur in the α -acyl radical which are combined with the carbonyl by "conductors" of the conjugation, the spectrum is thoroughly changed (Curves 4,5). It may be said that the spectra of the various derivatives under review are in a similar relation with one another as

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Chemical Structure and Some Properties of Diacyl Derivatives of Phenylhydrazine

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the spectra of the acid anilides corresponding to the α acyl radicals. The resemblance of the anilide spectrum to that of the corresponding diacyl-phenylhydrazine is then the most pronounced if a considerable conjugation effect is manifested in the α -acyl-radical. It can be seen from table 4 that not only the introduction of an acyl radical in the neighborhood of the β -nitrogen atom, but also that of a methyl or phenyl radical changes but little the optical properties of the molecule. Since the characteristic of the polarity of the derivatives can be important for the relation of the chemical structure with the analgesic activity, the dipole moments of the substances in question were determined. Similar values of these moments at quite different structure of the acid radicals can be seen from table 1. The authors express some suppositions for the interpretation of this phenomenon. There are 4 figures 1 table, and 7 references, 3 of which are Soviet.

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Chemical Structure and Some Properties of Diacyl

SOV/20-124-1-27/69

Derivatives of Phenylhydrazine

ASSOCIATION: Ural'skiy politekhnicheskiy institut im. S. M. Kirova

(Ural Polytechnic Institute imeni S. M. Kirov)

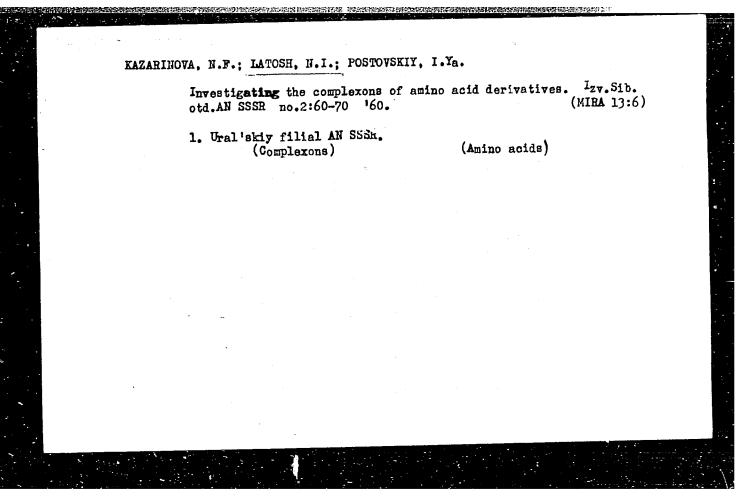
PRESENTED:

November 20, 1956, by I. N. Nazarov, Academician

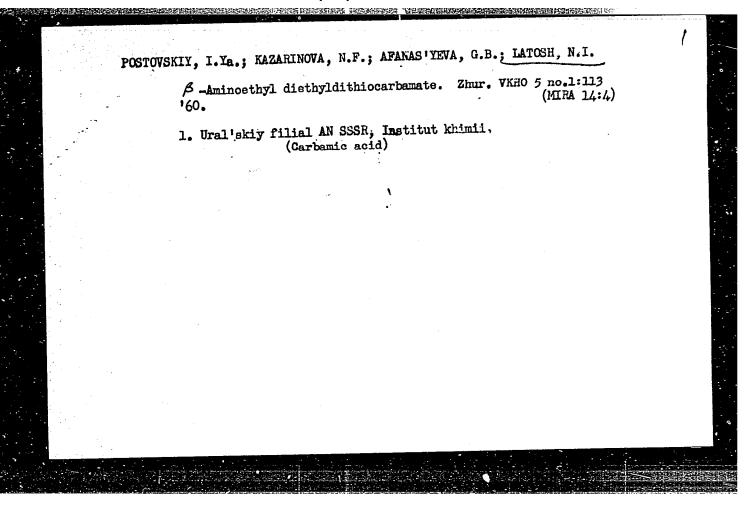
SUBMITTED:

October 12, 1956

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LaTosh	V.I.		
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	AUTHORS: Postovskiy, 1. Ya., Inscrinova, H. P., Manas'yava, C. B., Latosh,		
	F. I.	1	
	T191E: Nov Estors of Dithicoardsnio Acids PERIODICAL: Doklady Akademii mauk SSSR, 1960, Vol. 132, No. 1, pp. 145-144		
	ways. To the sublications data on the protective effect of antiradon (AFT,		
	Commingship 1 sothiuronium browide (2)) against ionising radiation have appeared (86a. i, 2). Thus, the authors tried to synthesize compounds with a similar structure, namely, A-mainosthyl dithiocarbanatay (II). They have produced new	r i	
	carbanates with a non-substituted aming group (IV, V, VI). They are formed by the reaction of A-oblorosthylamine with modius salts of the relevant dithicon-		
	hands acids (sodium diethyl dithiocarbamate, -ustramethylens dithiocarbamate, and pentamethylens dithiocarbamate). The rescion products were obtained as easily crystalliasable hydrochlorides (Table 1). By using the known reaction between		
	amines and quinones, the authors have synthesized new derivatives of benso- and parhithmentures (VIX-VIV) (see achese). These types of compound have recently	\uparrow	
	become recognized as physiologically active, and as new synthetic drugs, amongst		
	Card 1/2		
	other things as antibacterial and antigrowth mediums. The bencoquinous derivatives (VII-IX) and the maphthoguinous derivatives (I-IXY) contain p-aminosthyl-dithiocarbamate residues, and easily form on the interaction of free amines	•	
	(IV, V, VI) with quinones in an ethereal solution. They are red, readily crystallising, not easily soluble substances (Table 2). There are 3 tables		
	and 8 references, 1 of which is Soviet. ASSOCIATION: Institut bhisii Ural'skogo filisla Akademii nauk SSSR (Institute		
	of Chemistry of the Ural Branch of the Academy of Sciences, USSE)	{	-
	PRESERTED: January 17, 1960, by B. A. Kasanskiy, Accdomician SURMITTED: December 21, 1959	\	
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LATOSZEK JAN

Poland/Chemical Technology - Chemical Products and Their Application. Electrochemical Manufacturing. Electrodeposition. Chemical

Sources of Electrical Current, I-8

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 62204

Author: Szmidt, Konrad; Kolanko, Zdzislaw; Latoszek, Jan

Institution: None

Title: Regeneration of Nickel Electrolytes

Original

Periodical: Regeneracja zuzytych niklowych kapieli galwanicznych, Prace inst.

mech., 1955, 5, No 15, 36-40; Polish; Russian and French resumés

Abstract: For the regeneration of contaminated Ni-electrolytes it is recom-

mended to treat them with 0.7 N NH4OH to a pH 6.6; this removes all the impurities except 0.012% Zn which does not interfere with subsequent use. Further treatment of the solution by passing it over sulfonated coal permits to remove considerable amounts of NHu+ and Cl-, but the amount of Zn2+ remains almost unchanged. Further alkalinization of the solution to pH 6.85 removes almost all of the

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Poland/Chemical Technology - Chemical Products and Their Application. Electrochemical Manufacturing. Electrodeposition. Chemical Sources of Electrical Current, I-8

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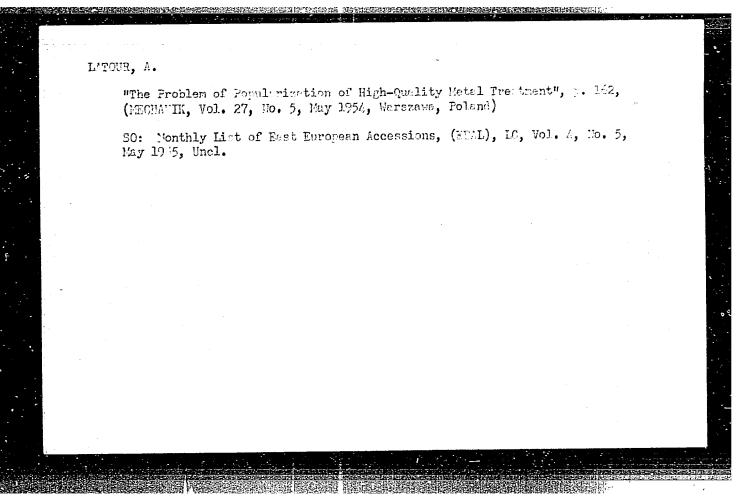
Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 62204

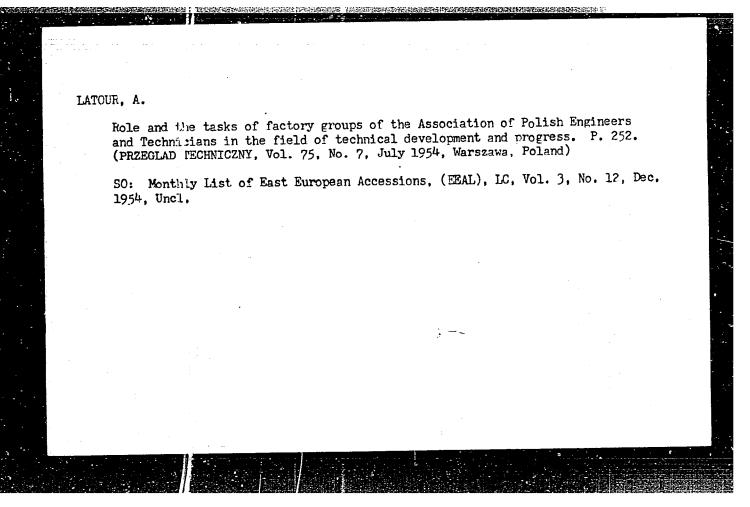
Abstract: Zn but also causes precipitation of Ni-salt in an amount up to 26% (recomputed on metallic Ni). The purified solution acidified after removal of the precipitate to pH 5.5 is a fully adequate electrolyte. There are presented precipitation curves of metal hydroxides with NH3 solutions of different concentrations (0.7-

Card 2/2

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	PÒL. #		
	Latour A. Investigations over the Procedure of Heat Treatment of		
	"Bedanja and doborem wartinkow obrobki ciepinej krajowych		
	slall szybkotnących" (Prace Gl. Inst. Mechan. No. 1), Warszawa, 1050,		1
	ra that Mochan A on 10 figs. 4 libs.		i
	Invertigations over the selection of the procedure for heat 11-al- ment of home produced high speed steels has established that: 1) 1 ac-		
	turns of hordened mutaffale and the hurdness at room temperature are		
	ineutistant america for determining the appropriate selection in their		
	heratures for hardening of high speed steels, and for controlling the hardening process; a complementary exemination of the microstructure		
	of steel chould be corried out; 2) the temperature range for might must		
	River start to higher than the temperature range our low array are		
	SW3 steets; 3) high speed steets, hardened at admissible high tempera- tures, have a higher tempering temperature than high speed steets		
Andrews of the state of the sta	havdened at lawer compensation and after temperary		
	things the result of the property of the party of the par		
	hardness after quenching. This property is one criteria for checklys the suitability of the heat treatment applied: 4) when submitted to		
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	not remarkable in low alloy steel of SV3 type, is observed in high		Ξ.
	speed steels; 5) culting speeds of sicels of LS5 type coe equal to, or	ugut ti partit	
	windly bleber than the culting speeds of SWIB steels. In this respect,		
	average values for SV3 sicels are a few points per cent lower than those		4.
	for SWJR stocks.	83	1.4

	5797 621.79:521.319.5 Labour A., Jurko W. Performance of Cutting Tools Hardened by AM		1
	where opark Profess.		
	"Wydnineść narzędzi skrawnjąsych utwardzenych ciektrolskrowo". Mechanik. No. 4, 1054, pp. 131—135, B (igs., 1 tab.		
	Experiments with a view to determining the signify of hardward		
	and not hardened cutting tools were corried out at the lateal Working Institute of the Warsaw Polytechnic, These experiments were perform-		
	The lools were hardened by an electric spark process the influence of		
	traiment peing taken into account it was acceptained that the		
	electric spark hardening increases the culting power of both high speed seed tools and other tools operating under similar conditions.		
	The experiments proved that tools hardened by this process have an average increase of 20% in cutting performance and 1.5 to 3.5 times longer life. It was also ascertained that appropriate heat treatment is the		
	main requirement in improving quality and lengthening the life of high		
	$\sim 10^{\circ}$	(1) 등 등 (1) <caption> (1) <caption> (1) <caption> (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)</caption></caption></caption>	. 5
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http://www.science		수 있는 경기를 보고 있다.	





LATOUR, A.

The problem of machining in Hungary. p. 180.

MECHANKI. (Stowarzyszenie Inzynierow i Techinikow Mechanikow Polskich) Warszawa, Poland. Vol. 32, no. 4, April 1959.

Monthly List of European Accessions (EEAI) LC, Vol. 8, no. 8 August 1959.

Uncl.

LATOUR, A.

The resistance of steel to cutting as influenced by heat-treatment. p. 422

MECHANIK Warszawa, Poland Vol. 32, no. 8, Aug. 1959

Monthly List of East European Accessions (EEAI) LCC, Vol. 9, no. 2, Feb. 1960 Uncl.

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A107/A126

为公司 IMP 经经验证据 医阿里斯斯氏性医神经性医神经检验 IME 117

AUTHOR:

Szulc, Stanisław, Professor, Latour, Andrzej, Doctor of Engineering,

and Zdunek, Bogusław, Engineer

TIILE:

Surface smoothness of machined heat resistant Nimonic 80 alloy

PERIODICAL: Fechnika Lotnicza, no. 2, 1960, 44 - 52

The article deals with investigations of this problem with respect TEXT: to production of turbine engines, carried out by the Katedra Wytwarzania Siliników Lotniczych FV! (Department of Aircraft Engine Construction of the Warsaw Polytechnic). The machinability of Nimonic 80 depends on its hardness and elasticity and is influenced by the "softening" (Wyplyw) phenomenon, caused by high temperatures, described by B. N. Ilyin [Ref. 1: Cutting Properties of Austenitic Steels]. Requirements for a successfull machining of Nimonic 80 are: high stiffness of machines and tools, accurate distance between tool and workpiece; cutting speed not overpassing 10 m/min; exact surface of tool and suitable cooling. Tests were carried out on Nimonic 80, heat treated at 1,080°C during 8 h, aged at 710°C during 16 h and cooled at room temperature. The mean mechanical properties of the test piece were: $H_B\approx 290$, $R_r\cong 107$ kg/mm, $Q_r\cong 72$ kg/mm, $a_5=24.5\%$; c=23%. The

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Surface smoothness of machined heat resistant...

P/008/60/000/002/003/003 A107/A126

smoothness was checked by a Schmal-Linnik microscope and the line average (CLA) by a Taylor-Hobson profilometer. Tests have been performed under following conditions: The cutting head was made of SW 18 steel, angle of inclination $\alpha=8^{\circ}$, angle of rotation $\chi = 5 \div 25^{\circ}$, angle of tool $\chi = 25 \div 75^{\circ}$, $\chi_{\rm p} = 0 \div 30^{\circ}$, reduced tool edge $\rm r = 0.5 \div 5$ mm. The TOS FA8V milling head was made of SW18 steel, angle of inclination $\alpha_{\rm u} = 12^{\circ}$, angle of rotation $\chi_{\rm u} = 20^{\circ}$, angle of tool $\chi_{\rm u} = 30^{\circ}$, $\chi_{\rm p} = 10^{\circ}$, reduced tool edge $\rm r = 0.5$, 1, 2, 3, 4 mm. The PSH24 grinding wheel driven by a 2 hp electromotor was furnished with 8 various grinding disks of \emptyset 250 x \emptyset 60 x 20 size, made of carborundum or corundum and developed in the Laboratorium Centralnego Biura Konstrukcji Narzędzi (Central Laboratory of the Construction Office of Tools) in Grodzisk. Conclusions: The highest smoothness, classified with 7 and 8 at cutting and milling and 9 and 10 at grinding have been achieved at following angles: $\alpha = 8 - 10^{\circ}$, $\chi = 15^{\circ}$, $\chi = 45^{\circ}$, $\chi_{p} = 5 - 10^{\circ}$, r = 3 - 4 mm, $\lambda = 4^{\circ}$; at a grinding depth g = 2 - 2.5 mm transmission p = 0.13 - 0.19 mm per turn, turning speed v = 9 - 10 mpsec using a cooling agent of 10% emulsion of oil emulgator E. There are 20 figures and 11 references: 8 Soviet-bloc and 3 non-Soviet-bloc. The references to the English-language publications read as follows: Research throws light on machining Nimonic and Titanium-Metalworking Production, IV/56. High Temperature Alloys - Air Force Machinability Report - The Iron Age, 7/54. Machining the Nimonic Series of Alloys-Machinery XII/49. Card 2/2

27224 H/011/60/000/005/002/002 A054/A126

15.6700

TITLE:

AUTHOR: Latour, Andrzej, Doctor of Engineering

Analysis of cooling-lubricating oils used for hard-cutting materials

PERIODICAL: Gép, no. 5, 1960, 187 - 191

TEXT: Cooling-lubricating oils, applied to steels and alloys which are difficult to machine, such as Nimonic 80 ($\sigma_{\rm B}=107~{\rm kg/sq}$ mm, $\sigma_{\rm F}=72~{\rm kg/sq}$ mm, $\sigma_{\rm F}=72~{\rm kg/sq}$ mm, $\sigma_{\rm F}=25\%$, $\psi=23\%$, HB = 290 kg/sq mm) must have a great surface activity and strong cooling effect, because the Nimonic 80 alloys can be machined only with high-speed steel tools. In order to find a suitable lubricating oil for these alloys, tests were carried out in the Aircraft Engines Section of the Warsawa Polytechnical Institute and in the Factory of Transport Facilities with various sulfur-containing oils, to study the relation between speed, feed and durability of the cutting edge, when lubricating Nimonic 80 alloys with oils containing and not-containing sulfur; to determine the optimum sulfur-content of the lubricant and to establish the technology of sulfur-containing oils. The tests were carried out partly in laboratories to define the relation between the behaviour of cutting tool and various lubricants, and partly on an industrial scale. The investigations

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27224 H/011/60/000/005/002/002 A054/A126

Analysis of cooling-lubricating oils used for ...

covered mainly the SM1 refined oil, containing vegetable and mineral oil elements, and the W5 spindle oil; the latter with and without sulfur added. The test-oils had the following S-content: SM1 - 0%; SM1 - 0.3%S; W5 - 0%; W5 with 0.1%. 0.2%, 0.3%, 0.5%, 1% and 1.5%S. In one series of experiments, of which the main object was to observe the effect of the sulfur content of the lubricating agent, the cutting speed, feed and depth of cutting were fixed (v = 8.7 m/min, feed: 0.19mm/rev, and cutting depth: 1 mm). These tests proved the superiority of sulfurcontaining lubricants (W5) even to the best quality of SM1 type oils. The W5 + 0.5 %S lubricant has the following characteristics: viscosity, E°: 9.02; water content: 0; reaction of aqueous solution: neutral; inflammation point: 150°C. Besides raising the durability of the cutting tool edge and the productivity of the machine, sulfur-containing lubrigants are much cheaper than the conventional ones. From 1 kg concentrate 20 kg of W5 + .5%S spindle oil can be obtained, which costs 58.3 Zloty, whereas the cost of the same quantity of SMl oil is 116 Złoty. [Abstracter's note: Translated from Polish by László Dobor]. There are 6 figures 2 tables and 9 references: 6 Soviet-bloc and 3 non-Soviet-bloc. The references to the English-language publication read as follows: (Ref. 7: Research throws light on machinging Nimonic and Titanium Metalworking Product IV/56); (Ref. 8: P. G. machining the Nimonic series of alloys - Machinery dec. 1/49). ASSOCIATION: Politechnika Warszawska (The Warsawa Polytechnical Institute) Card 2/2

LATOUR, Andrzej, dr., inz.; MARCINIAK, Mieczyslaw, mgr., inz.

Effectiveness of sulfur emulsions and of emulsions with addition of molybdenum sulphide as coolants for metal cutting. Mechanik 34 no.12:614-615 '61.

1. Politechnika Warszawska. 2. Czlonek Komitetu Redakcyjnego "Mechanik" (for Marciniak).

(Metal cutting) (Molybdenum)

LATOUR, Andrzej, dr.,inz.; MARCINIAK, Mieczysław, mgr.inz.

Efficiency of coolants in metal cutting fluids containing sulphur edditives and molybdenum disulphide. Mechanik 34 no.1:29-31 '62.

1. Politechnika Warszawska.

S/123/52/000/013/012/021 A004/A101

AUTHORS:

Latour, Andrzej, Marciniak, Mieczyslaw

TITLE:

The efficiency of using sulfurous emulsions and emulsions with

molybdenum disulfide additions

PERIODICAL: Referativnyy zhurnal, Mashinostroyeniye, no. 13, 1962, 57, abstract 13B335 ("Mechanik", 1961, v. 34, no. 12, 614 - 616; 1962, v. 35,

no. 1, 29 - 31, Polish)

At the Warsaw Polytechnic Institute three kinds of cutting fluids TEXT: have been tested in drilling grade 65 carbon steel, turning the steel grades 18 XHBA (19KhNVA) and 20 XTCA (20KhGSA) and milling and turning heat-resistant steels: ordinary water-oil fluid, water-oil fluid with molybdenum disulfide additions, water-oil fluid with sulfur additions and a paste for the direct lubrication of the tool cutting edge. In drilling the best results were obtained in using an emulsion with 0.5% MoS2 addition of Messr. Moly Paul (England) with simultaneous lubrication of the cutting edge with a paste. The tool life increased by a factor of 2.5 compared to the usual one. The results in turning are iden-

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S/123/62/000/013/012/021 A004/A101

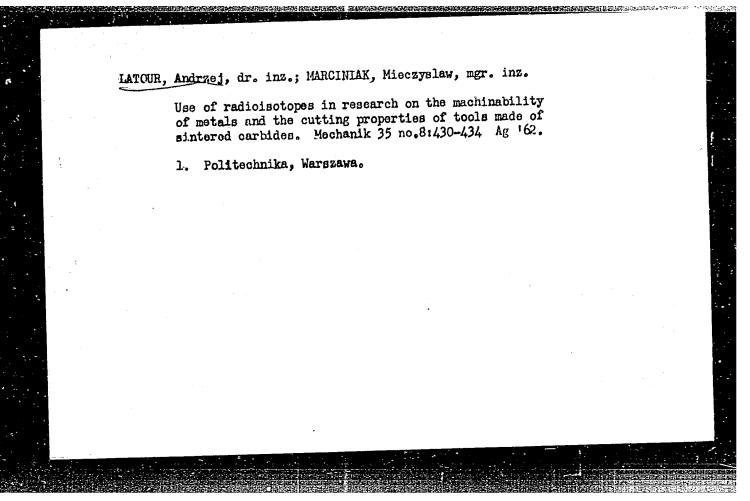
The efficiency of ...

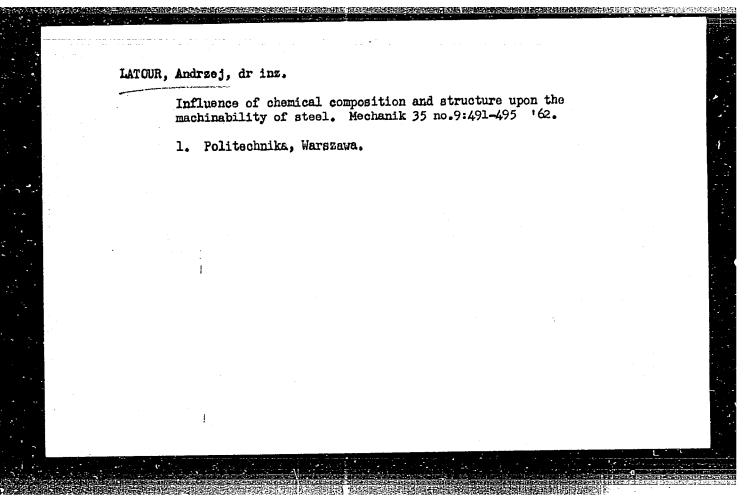
tical with those mentioned above. The tool life was increased by a factor of 3. The cutting speed magnitude during one-hour tool life, characterizing the cooling efficiency, amounts to $v_{60}=42$ m/min for the emulsion with 0.5% MoS₂ and to $v_{60}=34$ m/min for the ordinary emulsion. Using the sulfurous emulsion, the cutting speed grows by 15% during 1-hour tool life. When the laboratory tests were checked in production, the tool life increased up to a factor of 2 if cooling was effected with an emulsion with a MoS₂ addition. There are 7 figures and 3 tables.

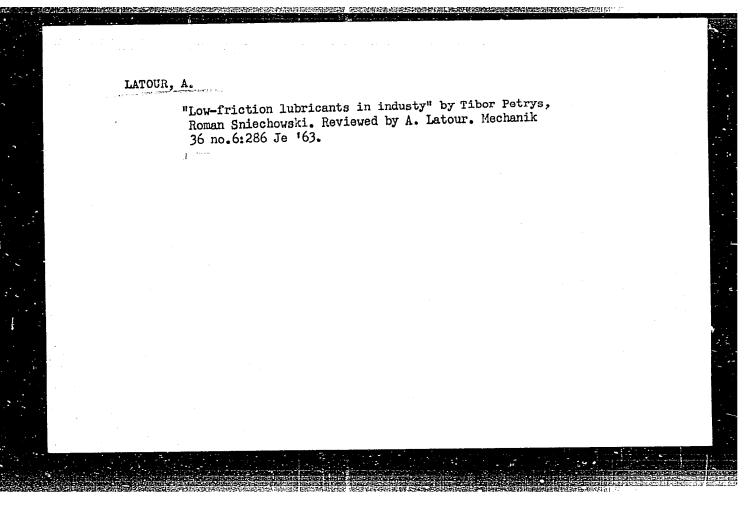
D. Kopeykin

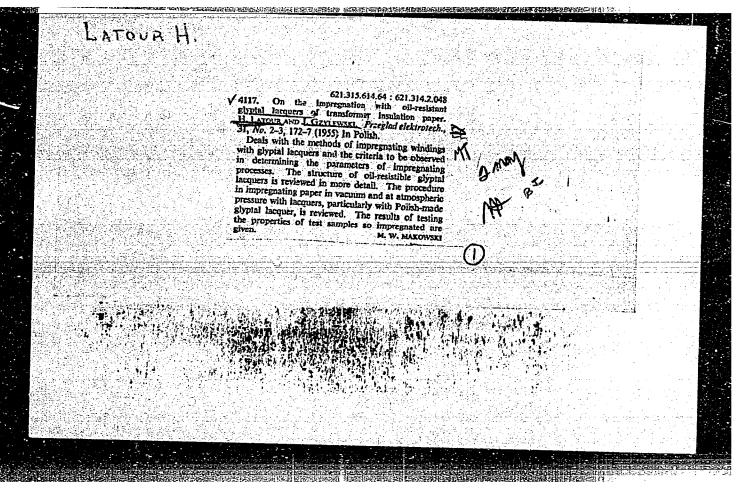
[Abstracter's note: Complete translation]

Card 2/2









的一种,我们就是一种,我们就是一种,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的人的人,我们就是

ACCESSION NR: AP4017876

P/0021/64/000/002/0106/0109

AUTHOR: Latour, H. (Master of engineering); Nieroda B. (Master of engineering)

TITLE: Domestic varnish products for magnetic sheet steels .

SOURCE: Przeglad elektrotechniczny, no. 2, 1964, 106-109

TOPIC TAGS: core plate varnish, synthetic resin, oil varnish, varnish curing, varnishing over, varnish adhesion characteristics, varnish dielectric characteristic, varnish aging, varnish environmental compatibility

ABSTRACT: The recent trend in the electrical machine industry is to insulate the iron laminations with material other than paper. This article deals in particular with the varnish method. From the manufacturing point of view, the most important requirement for good insulation is the feasibility of achieving uniform build-up thickness, 8-12 microns, by employing relatively low drying temperature (below 3000). Modern varnish products are based on synthetic resins made from thermosetting phenolic-formaldehyde resins modified by polyesters, or melamine, epoxy, isocyanide, silicon resins combined with thermoplastics. Uniform curing is achieved regardless of thickness, which is

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ACCESSION NR: AP4017876

one of the many advantages over oil varnishes. The reason for this is that drying is done by heat alone without surface oxydation. The adhesion characteristics of resin varnishes vary, opoxy and polyuretanes being the best as regards adhesion to metallic surfaces. The varnishing process consists in passing the laminations through the oven at a steady speed: first the solvent of the core plate evaporates, then the residue solidifies. This requires that the oven be divided into two zones, each held at a different temperature and separately ventilated. The curing time is much less for synthetic resin varnishes than for oil varnishes, thus the manufacturing cycle can be considerably shortened. The operation of the varnishing apparatus is more reliable at the lower temperatures required for synthetic varnishes. These factors and also the greater resistance to environmental conditions make the synthetic resins superior to oil varnishes. Extensive tests were made at the Zaklad Wysokich Napiec' Instytutu Elektrotechnicznego (High-Voltage Department of the Electrical Engineering Institute) and at the Instytut Farb i Lakierow (Institute of Paints and Varnishes) to determine and to compare the curing and the dielectric characteristics, also the effects of accelerated aging and major manufacturing factors. Two types of synthetic resin (enamels) and one type of ell varnish were studied for this purpose. In the evaluation of synthetics, the

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ACCESSION NR: AP4017876

curing characteristics based on the control of adhesion at elevated temperatures are most essential; they determine the degree of thermoplasticity of the resin. Original article contains 9 diagrams.

ASSOCIATION: Instytut Elektrotechniki, Zaklad Wysokich Napiec (High-Voltage Department of the Electrical Engineering Institute); Instytut Farb i Lakierow (Institute of Paints and Varnishes).

SUBMITTED: 00

DATE ACQ: 12Mar64

ENCL: 05

SUB CODE: CH, MA

NO REF SOV: 000

OTHER: 005

Card 3/8

LATOUR, J.

Supervision of the quality of measuring instruments; remarks and conclusions from a visit with the Soviet Bureau of Weights and Measures.

p. 333 (Pomiary, Automatyka, Kontrola) Vol. 2, no. 9, Sept. 1956, Warszawa, Poland

SO: MONTHLY INDEX OF EAST EUROPEAN ACCESSIONS (EEAI) LC, VOL. 7, NO. 1, JAN. 1958

POLAND/Nuclear Physics - Nuclear Power and Technology

C

Abs Jour

: Ref Zhur Fizika, No 8, 1959, 17491

Author

Andrzejewski, S., Latour, J., Nowacki, P.J., Tanbe, M.,

Pomerski, R.

Inst Title

: The Perspectives of the Polish Nuclear Energy Program.

Orig Pub

: Nukleonika, 1958, 3, Spec. Number, 1-10.

Abstract : No abstract.

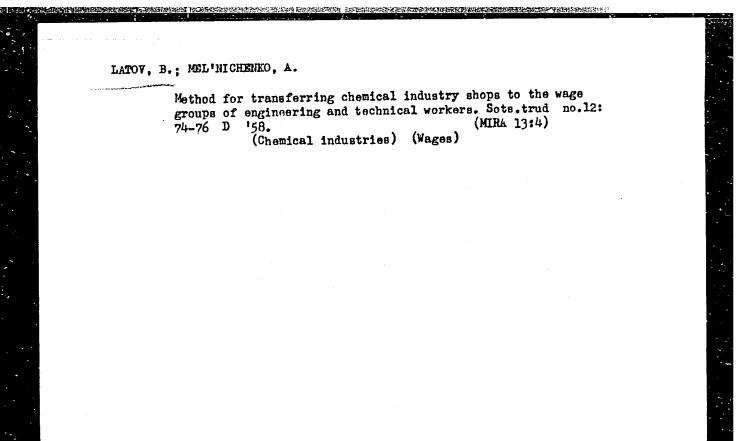
Card 1/1

- 39 -

ALEKSANDROV, N., LATOV, B., POGOSTIN, S., PUSHKOV, I.

Hegulation of work norms and wages of workers in the chemical industry. Sots. trud no. 7:33-39 Jl '58. (MIRA 11:8)

(Chemical industries--Production standards)



EPB/EWP(j)/EPF(c)/EWT(m)/BDS-AFFTC/ASD-Ps-li/Pc-li/Pr-li-L 9839-63 KPR/E RM/WM/MAY ACCESSION NR: AP3000395 8/0191/63/000/005/0011/0014 AUTHOR: Sarokin, M. F.; Latov, V. K.; Korkishko, Zh. T.; Kochnova, Z. A.

Copolymers of unsaturated ethers of glycidol. Copolymerization of TITE: methyl methacrylate with allylglycidyl ethers in solutions

SCURCE: Plasticheskiye massy*, no. 5, 1963, 11-14

TOPIC TAGS: copolymerization, methyl methacrylate, 2-propenyl 2,3-epoxypropyl, copolymerization rate, reaction temperature, initiator concentration, reactivity ratios, yields, molecular weight, benzoyl peroxide

ABSTRACT: Methyl methacrylate (MMA) and 2-propenyl 2,3-epoxyypropyl ether (PEPE) have been copolymerized in methyl ethyl ketone, dioxane, or toluene solution at 70 to 90C in the presence of 0.5 to 1.0 mol% of benzoyl peroxide or Alpha, Alpha-azobisisobutyronitrile. The reaction was conducted under nitrogen in solutions whose initial concentration of the monomers was 30%, with MMA and PEPE in ratios of 2:1, 1:1, and 1:2. The copolymerization rate dropped with an increase in the PEPE content and increased with an increase

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L 9839-63

ACCESSION NR: AP3000395

in the reaction temperature or initiator concentration. Because MMA is much more reactive than PEPE, the MMA-PEPE ratio in the copolymers is much higher than that in the initial monomer mixture. The monomer reactivity ratios were calculated to be 40.7 for MMA and 0.035 for PEPE. The copolymers, obtained in yields of 41 to 86%, are white solids readily soluble in benzene, toluene, acetone, or dioxane. Their molecular weights vary from 2000 to 10,000, decreasing with an increase in the initial PEPE concentration, reaction temperature, or initiator concentration. Copolymers prepared in dioxane solution have the highest molecular weight. Orig. art. has: 5 figures and 4 tables.

ASSOCIATION: none

SUBMITTED: 00

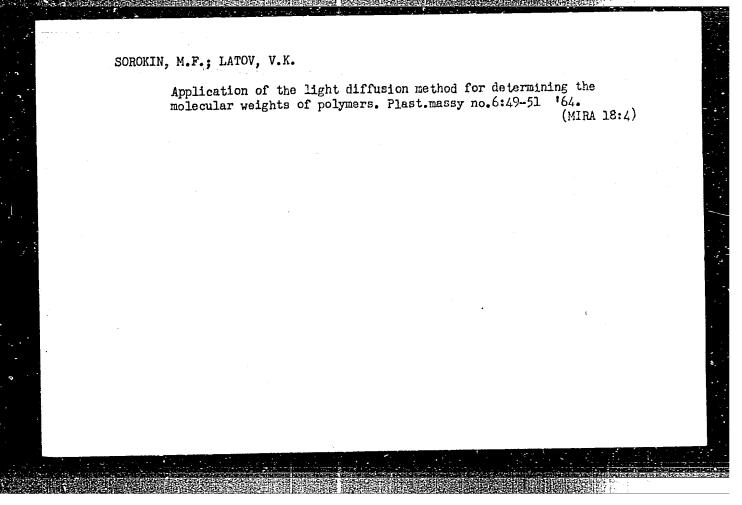
DATE ACQ: 10Jun63

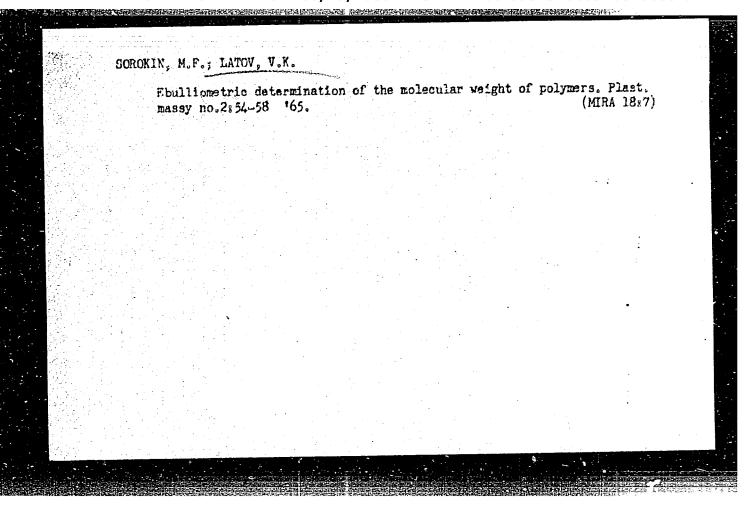
ENCL: 00

SUB CODE: 00 NO REF SOV: 000

OTHER: 011

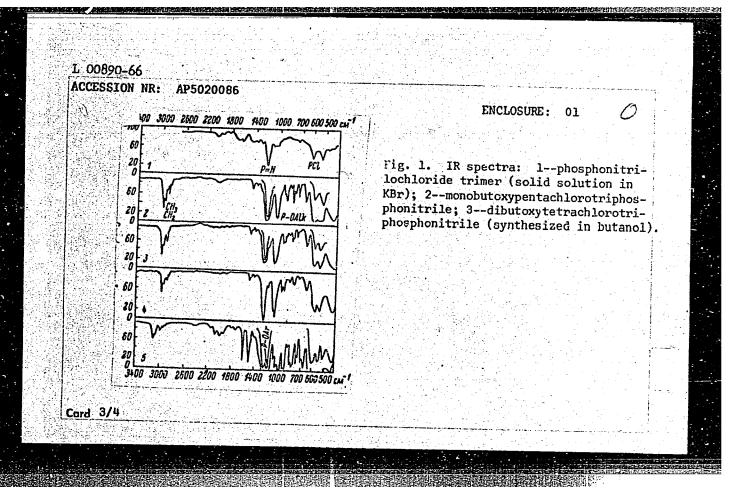
Ja/sa Card 2/2

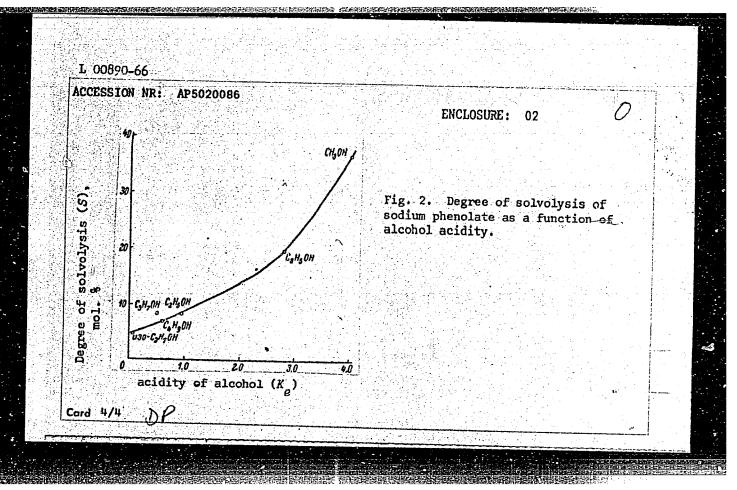




ACCESSION NE	R: AP5020086	UR/0079/65/035/008/1471/1475 546.185.325 : 547.239.2 : 546.13
AUTHOR: Sox	44,55 okin, M. F.; Latov, V. K.	55 1 32 29
【記憶でも Mointess 「西	chesis of partial esters of pho	
SOURCE: Zhi	nrnal obshchey khimii, v. 35, 1	ao. 8, 1965, 1471-1475
TOPIC TAGS:	ester, phosphonitrile, polyme	மு, chlorinated aliphatic compound
ABSTRACT: 1	onobutoxypentachlorotriphospho	onitrile, dibutoxytetrachlorotriphospho- .cl
	C ₆ H ₀ O \ P	OC,Ha
	ci/ \n/	1. Cl 22.
and tributo	kytrichlorotriphosphonitrile Cl∕yr⟨	OC ₄ H ₀

L 00890-66 ACCESSION NR: AP5020086 were synthesized from phosphonitrilochloride trimer and sodium butyrate using an alcohol-benzene solvent. The respective yields were 58.3, 50, and 48%. Boiling points, specific gravities, refractive indices, and chemical formulas were determined for all these compounds. Diphenoxytetrachlorotriphosphonitrile was synthesized, in the 60% yield, from phosphonitrilochloride and sodium phenolate using an alcohol-benzene solvent. The IR-spectra for these four compounds, taken with a UR-10 spectrophotometer, are shown in fig. 1 of the Enclosure. The degree of solvolysis (S) of sodium phenolate in reaction of the phosphonitrilochloride trimer with sodium phenolate as a function of the acidity of alcohol solvent (K_{ρ}) is shown in fig. 2 of the Enclosure. It was found that during solvolysis of sodium phenolate in alcohol, substitution with alkoxy-group takes place side by side with substitution with phenoxy-group. Orig. art. has: 2 figures and 1 table. ASSOCIATION: Moskovskiy khimiko-tekhnologicheskiy institut im. D. I. Mendeleyeva SUBMITTED: 08Jun64 SUB CODE: GC. OC NO REF SOV: 003 OTHER: 014 Card 2/4





<u>L 29545-66</u> EWT(m)/EWP(j)/T IJP(c) RM

ACC NR: AP6007772 (N)

SOURCE CODE: UR/0195/66/007/001/0042/0048

AUTHOR: Sorokin, M. F.; Latov. V. K.

45° B

ORG: Moscow Chemical Engineering Institute im. D. I. Mendeleyev (Moskovskiy khimikotekhnologicheskiy institut)

TITLE: Kinetics of the reaction of phosphonitrile chloride trimer with Na alco-

SOURCE: Kinetika i kataliz, v. 7, no. 1, 1966, 42-48

TOPIC TAGS: phosphonitrile, ethanol, methanol, chloride, sodium compound, reaction

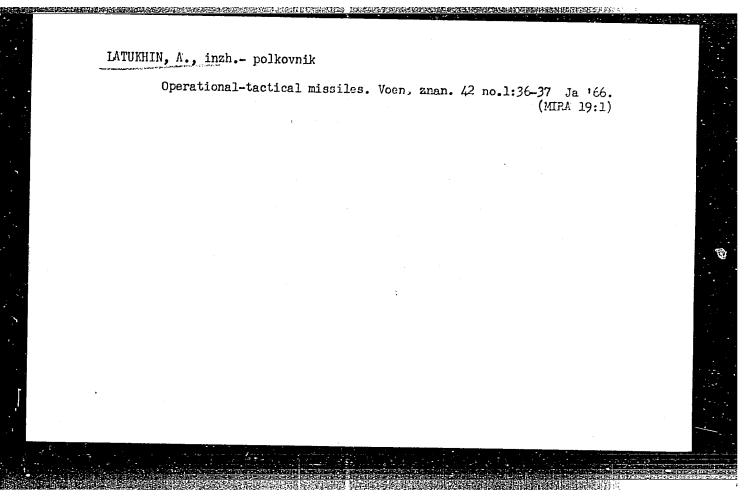
ABSTRACT: The kinetics of the reaction of phosphonitrile chloride (PNC) trimer and its incomplete butyl esters (monobutoxypentachlorotriphosphonitrile, dibutoxytetra-chlorotriphosphonitrile, and tributoxytrichlorotriphosphonitrile) with sodium butoxide in butanol, sodium ethoxide in ethanol, and sodium methoxide in methanol were studied. The reaction is first order with respect to the PNC trimer, its esters, and the alkoxide ion, and zero order with respect to the alcohol. An

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UDC: 541.124 : 542.951.3

ACC NR: AP60	07772				*****		<u>ک</u>
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energy, and re	n increase in oxy groups sha eads to a decr	the degree arply lower rease in th	of subst s the rea e entropy	itution o ction ra- of activ	of chloring te, raises	ne atoms in the activa	the PNC
phosphorus is	proposed. On	rig. art. h	ge from thas: 5 fi	ures, 3	tables,	entacoordin and 6 formul	2+1-2 aF
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ACC NR. AP7000	228 (N)	SOURCE CODE:	PO/0099/66/040/002/02	31/0235	
ATOUSKT T. of	the Department of	Physical Chemistry Szkoly Pedagogiczne	Teachers College	324	
. Photoche ysis of Chloroa	nical Properties of milines in Methanol	f Aniline Haloderiv lic Solution"	ratives. III. Photo-		
arsaw, <u>Roczniki</u>	Chemii, Vol 40, No	o 2, 1966, pp 231 -	- 235		
ons upon photol	ysis of methanolic me chlorobenzene de	solutions of sever erivatives having v	of formation of chlor ral chlorinated anilin rarious substituents i	in	
he para positio out part of the	n were investigated experimental research	d. The author tha	nks L. Debicka for ca as: 1 table and 2 fo	rrying rmulas.	
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SUB CODE: 07 /	SUBM DATE: 02 Feb	b 63 / ORIG REF: C	004 / OTH REF: 011		
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LATOVA, Zofie

HOUBAL, Vaclav, Primar MUDr (Brno-Lisen, Namesti 18); LATOVA, Zofie,
As. MUDr (Brno-Reckovice, Dlouhe hony 10)

Reperience with the treatment of acute hepatic dystrophy. Lek.
11sty, Brno 9 no.15-16:365-369 1 Aug. 54.

1. Z V, vintrniho a infekcniho oddeleni KUHZ, fakultni nemocnice
v Brne-Bohunicich, Prednosta primar MUDr V, Houbal.
(LIVER, diseases,
necrosis, ther.)
(NECROSIS,
liver, ther.)

S/081/63/000/001/031/061 B144/B186

AUTHORS:

Szychliński, Jerzy, Karczyński, Feliks, Latowska,

Elžbieta, Pawlak, Zenon

TITLE:

Some data on chloro-plumbic acid

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 1, 1963, 111-112, abstract 1V5 (Roczn. chem., v. 36, no. 4, 1962, 771-773

[Pol.; summary in French])

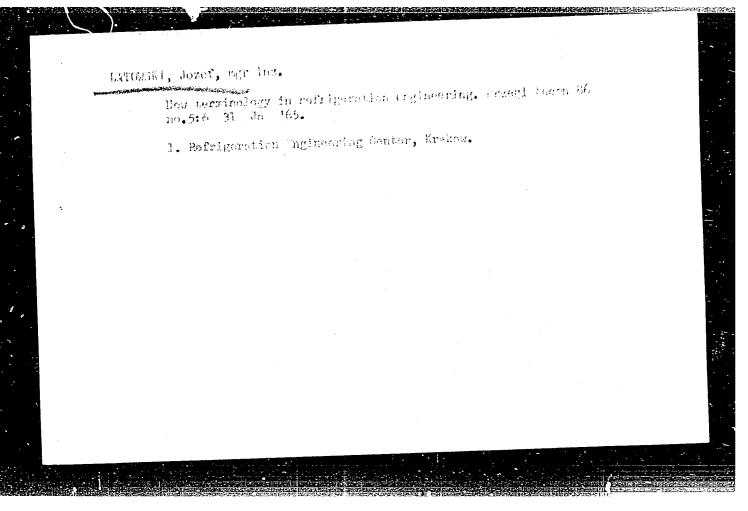
TEXT: It is established that chioro-plumbic acid has the composition $H_2PbCl_6 \cdot nH_2O$ (I) when obtained by the method described previously (Friedrich H. "Ber.", 1893, 26, 1434). The acid I dissolves in HCl, but poorly in CH,OH and C_2H_5OH , and not at all in C_6H_6 and CCl_4 With organic solvents, I cannot be extracted from hydrochloric solutions; this proves the absence of PbCl₅ in these solutions. [Abstracter's note: Complete translation.]

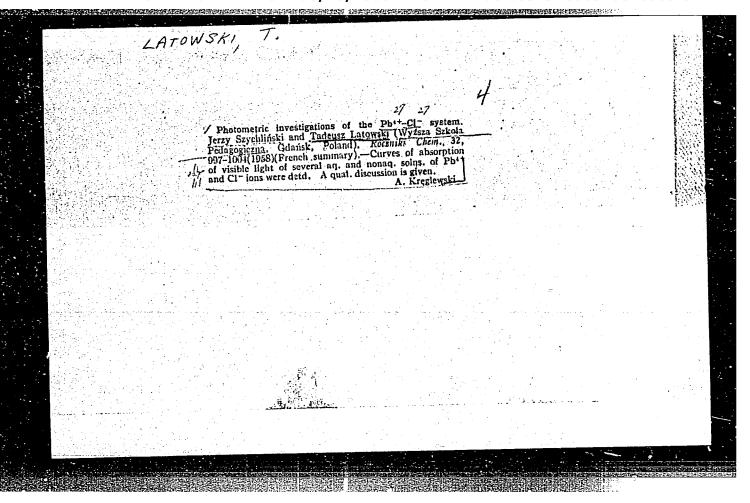
Card 1/1

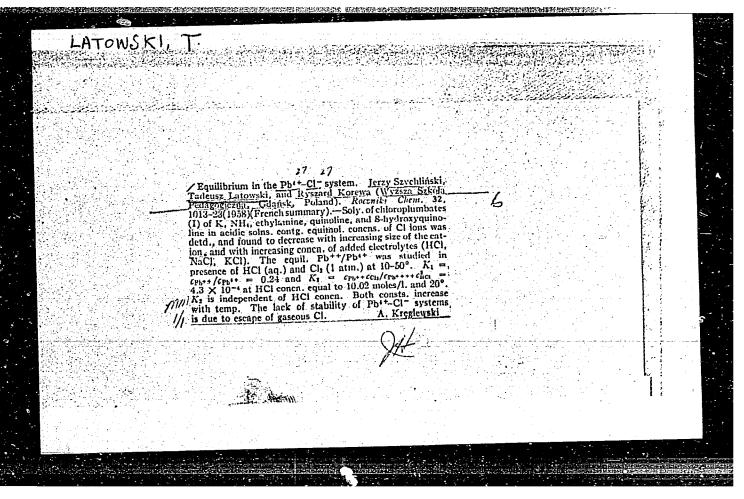
SZYCHLINSKI, Jerzy; KARCZYNSKI, Feliks; LATOWSKA, Elzbieta; PAWIAK, Zenon

Some remarks on chloroplumbic acid. Rocz chemii 36 no.4:
771-773 '62.

1. Katedra Chemii Fizycznej, Wyzsza Szkola Pedagogiczna, Gdansk.







.3/058/63/000/001/062/120 A160/A101

AUTHORS:

Basiński, Antoni, Latowski, Tadeusz

TITLE:

The photochemical properties of halogen-derivative anilines. I. A. photolysis of iodine-derivative anilines $J - C_6H_h - R$ (R = NH₂, - NH - CO - CH₃ and NH³⁺) in methanol solution

PERIODICAL:

Referativnyy zhurnal, Fizika, no. 1, 1963, 61, abstract 1D434 ("Roczn. chem.", no. 3, 1962, 36, 513 - 520, Polish; summaries in Russian, English and German)

TEXT: An investigation was carried out of the rate of the photochemical process of separating iodine from the benzene ring in the presence of the following groups: - NH₂, - NH - CO - CH₃ and - NH₃ in methyl alcohol solutions. An attempt was made to compare the results of the photolysis with the ultraviolet absorption spectra.

[Abstracter's note: Complete translation]

Card 1/1

S/081/63/000/001/024/061 B144/B186

CENTROLEGICAL PROPERTY OF THE PROPERTY OF THE

AUTHORS:

Basinski, Antoni, Latowski, Tadeusz

TITLE:

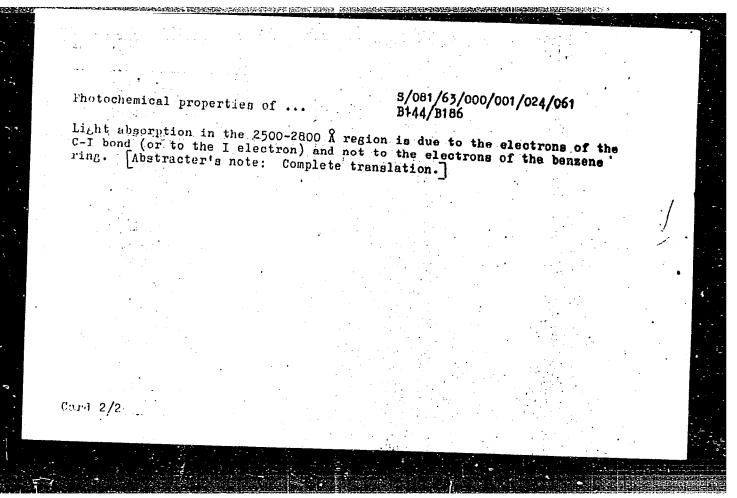
Photochemical properties of halogen derivatives of aniline. I. Photolysis of iodine derivatives of aniline IC6HAR

 $(R = H_2, NHCOCH_3, and NH_3^+)$ in solutions of methyl alcohol

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 1, 1963, 90, abstract 18626 (Roczn. chem., v. 36, no. 3, 1962, 513-520 [Pol.; summaries in Russ., Eng., and Germ.])

TEXT: The photolysis rate of C_6H_4R , where $R = NH_2$ (I), NHCOCH₃ (II) and NH_3^+ , under the effect of Hg lamps was studied in CH_3OH solutions and in $CH_3OH-H_2SO_4$ mixtures. For para- and meta-I the photolysis rate is almost the same, for ortho-I it is 24% higher. From the UV spectra it is evident that the photolysis rate increases when the energy of the main electron transition (K band) of the isomers of I and II decreases. This energy reduction is greater, the higher the polarity of the molecule. Card 1/2



LATOWSKI, Tadeusz; BASINSKI, Antoni

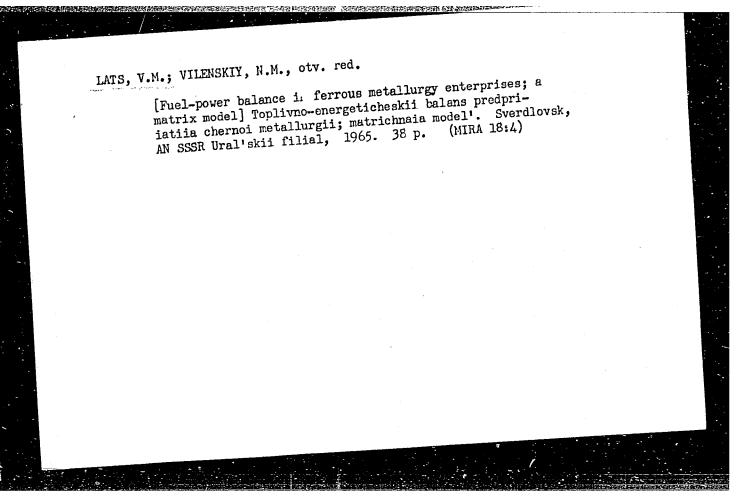
Photochemical properties of halogenous derivatives of aniline. Pt. 2. Rocz chemii 37 no.3:341-346 63.

1. Department of Physical Chemistry, Normal School, Gdansk, and Department of Physical Chemistry, N. Copernicus University, Torun.

IATRANYI, Jeno Geometric delivery of gear-wheel pumps. Gep 16 no. 2: 57-61 F '64. 1. Budspesti Muszaki Egyetem Vizgepek Tanszeke. Tanszekvezeto: Dr. Varga Jozsef egyetemi tanar.

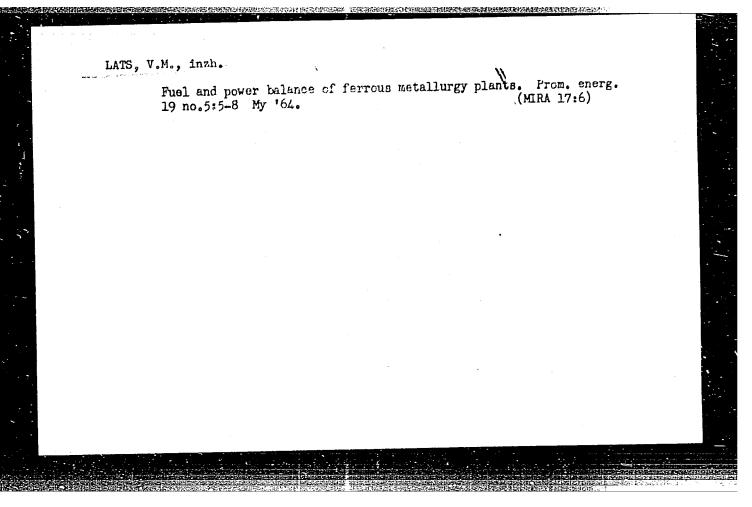
Greater capacity of planning tools, p. 188, STROJIRENSKA VYROBA (Ministerstvo strojirenskvi) Praha, Vol. 3, No. 5, May 1955

SOURCE: East European Accessions List (EEAL) Library of Congress, Vol. 5, No. 12, December 1955



VASIL'YEV, M.V.; V'YUKHINA, A.S.; DORONENKO, Ye.P.; ZEBZIYEV, K.V., kand. tekhn. nauk; LATS, V.M.; PARFENOV, G.V.; POPOV, V.Ye.; TROITSKIY, D.P.; FADDEYEV, B.V.; TSVETAYEVA, Z.N.; ZURRILOV, L.Ye., kand. tekhn. nauk, otv. red.; MAKAROVA, N.U., red.; PAL'MIN, M.Z., tekhn. red.

[Evaluation and the prospects of the development of the mineral resources for ferrous metallurgy in Chelyabinsk area] Otsenka i perspektivy razvitiia syr'evoi bazy chernoi metallurgii Cheliabinskogo raiona. Sverdlovsk, AN SSSR, 1964. 67 p. (MIRA 17:4)



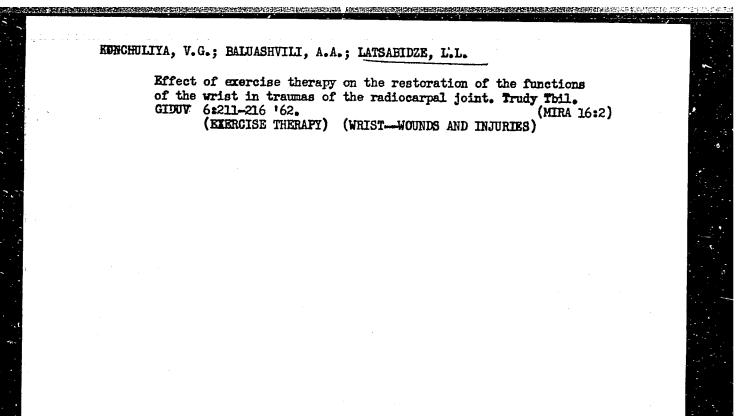
RUNCHULITA, V.G.; BALUASHVILI, A.A.; NIORADZE, T.N.; LATSABIDZE, L.L.

Reflect of exercise therapy on the restoration of impaired coordination of movements in some forms of neurasthenia (with vestibilepathy). Trudy Tbil. GIDUV 6:203-210 '62.

(MIRA 16:2)

(KXKRCISE THERAPY)

(NEURASTHENIA)



DZIDZIGURI, A.A.; ONIANI, Sh.I.; LATSABIDZE, T.O.

Effect of the rellef of the temperature field of the interior of Tkibuli-Shaori coal deposit. Soob. AN Gruz. SSR 32 no.3: 611-618 D '63. (MIRA 17:11)

1. Institut gornogo dela imeni G.A. TSulukidze AN GruzSSR.

2. Chlen-korrespondent AN GruzSSR (for Dzidziguri).

NZIDZIGURI, A.A.; ONIANI, Sh.I.; LATSABIDZE, T.O.

Using the method of electric simulation in investigating genthermic conditions of the Komsomol'skaia Mine of the "Tkibulugol'" Trust. Soob. AN Gruz. SSR 35 no.2:387-394 Ag 64.

(MIRA 17:12)

1. Institut gornogo dela imeni G.A.TSulukidze, A" Gruzinskiy SSR,
Tbilisi. 2. Chlen-korrespondent AN Gruzinskoy SSR (for Dzidziguri).

DZIDZIGURI, A.A., prof., daktor takhn.nauk; ONIANI, Sh.I., kand.takhn.nauk;

LATSABIDZE, T.O., gornyy inzh.

Investigating the thermal conditions of a deposit by the electrothermal analogy method. Ugol' 40 no.3:5'-61 Mr '65.

(MIRA 18:4)

1. Institut gornoy mekhaniki, razrabotki mestorozhdeniy i fiziki vzryva AN Gruzinskoy SSR.

LATSH, V. V.

Chemical Abst.
Vol. 48 No. 4
Feb. 25, 1954
Electronic Phenomena and Spectra

X-ray analysis of the structure of altiminum and brass L-70 in the processes of compression and recovery. S. O. Tsobkallo land V. V. Latsh', M. I. Kalinin Polytech, 1981. Leningrad). Invall Rad. Walk S. S. S. K. Ser. Fis. 17, 373-80 (1953).—The samples of the compn. Al 99.67, Si 0.13, Cu 0.03, Fe 0.17% and brass Cu 70.09, Zn 28.95, Pb 0.96%, and Fe traces were formed into cylinders 25 mm. high and 15 mm. in diam. The Al compn. was fired for 3 hrs. at 250°, the brass at 400°. The Al compn. was flattened by 5, 11, 16, 35, 55, and 80%, the brass by 5, 9, 17, 20, 40, and 50%. Such samples were fired at different temps. for 1 hr. and also at const. temp. for different periods. Rockwell hardness was measured and x-ray pictures of Cu radiation were examd. for scattering of lines, indicating deformations of second and third kind. The intensity of the 511 line (Al) drops linearly as a function of the deformation. Both intensity and hardness recover by annealing for 1 hr. at temps. >160°. Intensity can be represented as a function of Rockwell hardness by a curve. In brass the width of line 420 increased linearly to 20% deformation; then the width remained const. to 40% and increased again above that. Upon annealing hardness increased to a max. at 230-210°, beyond which temp. rapid recovery set in. From isothermic annealing tests it is shown that deformations of the 3rd kind are not completely lifted by annealing in recrystd. parts. This increase in hardness in brass is attributed on the basis of microscopic observation of gliding planes to a chem. inhomogeneity leading to a sepn. of a β phase with higher Zu content. The results are discussed and the assection is made that in pure metals hardening is due to deformations of the third kind, whereas in alloys hardening is due both to deformations of the lattice and to changes in phase structure.



Lotsh, U.U.

AUTHORS:

Petrova, N.A., Shashin, M.Ya., Latsh, V.V.

32-11-40/60

TITLE:

The Application of the Method of X-Ray Structural Analysis for the Investigation of Changes in the Upper Layers of the Metal by the Method of Sorap Slinging (Primeneniye metoda rentgenostrukturnogo analiza dlya issledovaniya izmeneniy v poverkhnostnykh sloyakh metalla pri drobemetnom naklepe)

PERIODICAL:

Zavodskaya Laboratoriya, 1957, Vol. 23, Nr 11, pp. 1372-1374 (USSR)

ABSTRACT:

This method of studying processes occurring in steel while being worked to sorbite steel by means of the sorap slinging process was investigated. The attempt was made to determine the depth and the degree of the plastic deformation occurring on this occasion. The samples were produced from chromium-molybdenum steel (0.33% C; 1.11% Gr; 0.35% Ni; 0.18% Mo), which was first hardened and them annealed to sorbite. The sorap slinging treatment was carried out in different ways by application of the device "Ay -60", and the following expression was obtained by simplified parameters:

sorap velocity: v in $\frac{m}{sec}$ with a specific scrap energy of x $\frac{tm}{m}$ $\frac{1}{2}$ [4.5].

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X-ray investigation of the samples was carried out in a special

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The Application of the Method of X-Ray Structural Analysis for the Investigation of Changes in the Upper Layers of the Metal by the Method of Scrap Slinging

camera with neutral intensity standard. The camera was arranged in such a manner that on one film the required interference line —Fe and the standard line were recorded. For the purpose of controlling the work performed, pictures of the sample in its original state were inserted after every 7-8 X-ray pictures. X-ray photographs were photometrized on the microphotometer "M ϕ -2". X-ray pictures were taken of the surface of the samples as well as of various parts located at different depths from the surface. Decrease of the layer of metal was brought about by etching in a 50% H₂SO₁ solution at an amperage of 0.25-0.30 Mcm², which was micrometrically recorded. In the course of work the values:

 $M = 60-100 \frac{\text{tm}}{\text{m}^2}$ and accordingly the value $\frac{\text{I}}{\text{I}_{\text{standard}}}$ = 1.6 - 1.4 was computed. At the same time it was found that the curve of the ratio

 $\frac{T^{2}}{I_{standard}}$, which is connected with an increase of the intensity of the

manner of working which, in turn, is accompanied by an increase of deformation, leads to a critical moment for the parameter value

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The Application of the Method of X-Ray Structural Analysis for the Investigation of Changes in the Upper Layers of the Metal by the Method of Scrap Slinging

M at 60-100 $\frac{tm}{m^2}$, and that the deformation (of third degree) towards the inside of the sample decreases rapidly, so that at $\sim 0.15-0.19$ mm the value $\frac{I^{112}}{I_{standard}}$ hardly differs at all from the original value.

On the strength of the results obtained it was found that the value $\frac{I^{112}}{I_{standard}}$ = 1.6 $\frac{1}{1}$ 1.4 on the surface of the sample and, accordingly, standard M = $60 \div 100 \frac{tm}{I_{standard}}$ are to be considered as oriteria for the optimum manner of processing in the scrap-slinging process applied to chronium molybdenum steel (with R = $28 \div 32$ of the initial thermal treatment). The application of the harder working methods may cause micro-cracks and other damage to the material, and may also diminish the limit of metal fatigue. There are 4 figures and 5 Slavic references.

AVAILABLE: Card 3/3 Library of Congress

S/181/60/002/007/045/047/XX B006/B067

AUTHORS: Latsh, V. V., Minayev, N. G., Somin, B. Kh.

X-Ray Study of the Phase Composition of Ni-Zn Ferrites by

TITLE: X-Ray Study of the Tuning COK, Radiation

PERIODICAL: Fizika tverdogo tela, 1960, Vol. 2, No. 7, pp. 1632-1642

TEXT: The use of the emission of an iron anticathode for analyzing the phase of Ni-Zn ferrites proved to be inadequate since it renders the determination of NiO or of the solid solution of ZnO in NiO difficult or impossible because the lines of NiO and the spinel coincide. If harder impossible because the lines of NiO and the spinel coincide. If harder impossible because the lines of NiO and the spinel coincide in terference observed; the X-ray pictures show two additional intensive interference lines of NiO with the indices (133) and (420), and the Bragg angles lines of NiO with the indices (133) and (420), and the Bragg angles (59° and 74°, respectively. An X-ray tube of the type 5CB-4 (BSV-4) (time of exposure 10 hours; 10 ma, 35 kv) was used for taking the Debye (time of exposure 10 hours; 10 ma, 35 kv) was used for taking the Debye (time of exposure 10 hours; 10 ma, 35 kv) was used for taking the Debye (time of exposure 10 hours; 10 ma, 35 kv) was used for taking the Debye (time of exposure 10 hours; 10 ma, 35 kv) was used for taking the Debye (time of exposure 10 hours; 10 ma, 35 kv) was used for taking the Debye (time of exposure 10 hours; 10 ma, 35 kv) was used for taking the Debye (time of exposure 10 hours; 10 ma, 35 kv) was used for taking the Debye (time of exposure 10 hours; 10 ma, 35 kv) was used for taking the Debye (time of exposure 10 hours; 10 ma, 35 kv) was used for taking the Debye (time of exposure 10 hours; 10 ma, 35 kv) was used for taking the Debye (time of exposure 10 hours; 10 ma, 35 kv) was used for taking the Debye (time of exposure 10 hours; 10 ma, 35 kv) was used for taking the Debye (time of exposure 10 hours; 10 ma, 35 kv) was used for taking the Debye (time of exposure 10 hours; 10 ma, 35 kv) was used for taking the Debye (time of exposure 10 hours; 10 ma, 35 kv) was used for taking the Debye (time of exposure 10 hours; 10 ma, 35 kv) was used for taking the Debye (time of exposure 10 hours; 10 ma, 35 kv) was used for taking the Debye (time of exposure 10 hours; 10 ma, 35 kv) was

Card 1/3

X-Ray Study of the Phase Composition of Ni-Zn S/181/60/002/007/045/047/XX Ferrites by Using COK, Radiation B006/B067

NiO (0.5 wt%), ZnO (2.0 wt%), Fe_2O_3 (2.0 wt%). The results of the investigations are illustrated by means of X-ray diagrams, tables, and microstructural pictures, and they are summarized as follows: 1) With Co-Ko radiation NiO or ZnO can be determined in Ni-Zn ferrites and NiO, respectively by means of interference lines. 2) During the ferritization process, in the case of stoichiometric composition, no formation of solid ZnO solutions in NiO was observed. The formation of Zn ferrite in the synthesis from oxides ceases at a temperature of 900°C, the ferritization of nickel ferrite ceases at 1100°C. 3) A rise of the annealing temperature of ferrite mixtures with a low content of iron oxide over 900°C leads to a substitution reaction between the excess NiO and the Zn ferrite which brings about a change in the ratio between divalent Ni and Zn ions in the ferrite lattice. 4) Zinc oxide and nickelous oxide form solid substitution solutions with conservation of the Ni-O crystal lattice; the lattice parameter practically increases linearly with increasing ZnO content (see Fig. 3 and Table 3). The solubility limit of ZnO and NiO amounts to about 50 wt% at an annealing temperature of 1350°C. If this temperature is reduced to 900°C the solubility limit of ZnO is reduced to ~30 wt%. A change in the solubility of ZnO in NiO could not be observed on a further

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X-Ray Study of the Phase Composition of Ni-Zn S/181/60/002/007/045/047/XX Ferrites by Using COK, Radiation B006/B067

temperature increase; this is connected with the strong decrease of the diffusion rate. 5) In Ni-Zn ferrites with less than 50 mole% of Fe₂O₃, NiO and ZnO excesses exist which form solid solutions. The formation of a solid ZnO solution in NiO was observed after the termination of zinc ferritization. B. Ye. Levin is mentioned. There are 8 figures; 3 tables, and 11 references: 9 Soviet and 1 US.

SUBMITTED: July 22, 1959

Card 3/3

84082 s/181/60/002/009/023/036 воо4/во56

9,2571

Latsh, V. V., Minayev, N. G., Somin, B. Kh., Stepina, N.E. AUTHORS:

TITLE:

Dissolution of Excess Iron Oxide in Ni-Zn Ferrite

PERIODICAL: Fizika tverdogo tela, 1960, Vol. 2, No. 9, pp. 2191 - 2198

TEXT: For the purpose of explaining the contradictory published data concerning the solubility of Fe 0 in ferrites, the authors carried out the following experiments: Ni-Zn ferrites with a content of 50-95 mole% Fe₂0₃ and an NiO/ZnO ratio of from 0.43 to 4.0 were synthetized from the oxides, were briquetted after the addition of polyvinyl alcohol as a binding agent, annealed for 4 h at 1000-1350°C, after which they were either slowly cooled (100°C/h) in a furnace or quenched with air or water. Besides, they were also slowly cooled under oxygen deficiency (0.7 to 0.35 torr). Fig. 1 shows the results obtained by chemical analysis: The quantity of Fe₂O₃ converted into magnetite as a function of the Fe₂0₃ content and the cooling conditions; Fig. 2 shows the quantity

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Dissolution of Excess Iron Oxide in Ni-Zn S/181/60/002/009/023/036 Ferrite S/181/60/002/009/023/036

of Fe₂0₃ converted into magnetite as a function of the annealing temperature. The quenched samples were found to have the highest magnetite content. The Fe₂0₃ excess dissociates to form magnetite, and together with the ferrite it forms solid solutions of iron-nickel-zinc ferrite of stoichiometric composition. When slowly cooled in air, the magnetite is oxidized to γ-Fe₂0₃ or α-Fe₂0₃. The latter separates as the second phase. Figs. 3-6 (microphotographs) confirm this process. The quenched samples form a homogeneous phase, while the slowly cooled samples have two phases because of the separation of hematite. X-ray analysis (Fig. 7) shows that the lattice constant of quenched samples approaches that of magnetite (8.38 kX), whereas Fe₂0₃ formed by oxidation reduces the lattice constant (8.32 kX at 100 mole% Fe₂0₃). Fig. 8 shows the temperature of the dissociation of Fe₂0₃ to Fe₃0₄, as a function of the Fe₂0₃ content. For pure Fe₂0₃, the dissociation temperature is 1450°C, and in the system

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84082
Dissolution of Excess Iron Oxide in Ni-Zn S/181/60/002/009/023/036
Ferrite 84082
S/181/60/002/009/023/036

Ni-Zn-ferrite - Fe $_2$ 0 $_3$, it approaches the value of 900 $^\circ$ C with decreasing iron-oxide excess. There are 8 figures and 23 references: 11 Soviet, 4 US, 2 British, 3 German, and 1 French.

SUBMITTED: October 26, 1959

Card 3/3

	97	PHASE I BOOK EXPLOITATION SOVA893	-khimicheskim svoystvam eniya. 3d, Minsk, 1959	Werrity, finithestive 1 finite-knimithestive svoystva. Doklady (Perrites: Mysical and Mysicochemical Fromrites. Reports) Mink, Izd-o M BSSR, 1960. 655 p. Brrata slip inserted.	Sponsoring Agencies: Mauchnyy sowet po magnetizmu AN SSSR, Otdel fight terdogo tela i poluprovodníkov AN BSSR.	Editorial Board: Resp. Ed.: N. Sirota, Academician of the Academy of Sciences BSSR: K. P. Bellow, Professor: Ye. I. Kondor-sairy, Professor: W. Telesin, Professor: G. A. Smolenskiy, Professor: R. W. Shol'ta, Candidate of Engalogi and Mothemstical Sciences; R. M. Shol'ta, Candidate of Engalogi and Mothemstical Sciences; R. M. Smolymarky; Professor: R. M. Smolymarky; Tech. S. Masakiron; Ed. of Publishing House: S. Mnolyavskiy; Tech. Ed.: T. Volokhanovica	FURECUS: This book is intended Tor physicals, physical chemiss, redto electronics engineer, and technical personnel engaged in the production and use of ferromagnetic materials. It may age to be used by stated as a managed to the parties, and physical desired courses in redto electronics,	COVERIGE: The book contains reports presented at the Third All-Third Conference on Perrites haid in Mink, Balorusiana SSR. The reports deal with aggretic transformations, electrical and galvaneament to properties of ferrites, studies of the growth of ferrites alingle crystals, problems in the chemical and physicochemical analysis of ferrites, studies of ferrites any invited rectangular by states, problems in the chemical and physicochemical analysis of ferrites and physicochemical and physicochemical physical p	Partites (Cont.)	SOV/AB93	m	Mcgrestins-Chronium Perrites and Microstructure of 196 Magrestins-Chronium Perrites 196 Mirrassac M. Z. Investigation of the Constant of the Mag- Perites by a Method of Ammandal Magres and Magnestins Perrites by a Method of Ammandal	Card 1/A8	כשוק ז/ש	
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ACCESSION NR: AR4018314

B/0137/64/000/001/C036/C036

SOURCE: RZh. Metallurgiya, Abs. 16251

AUTHOR: Somin, B. Kh.; Gorbachevskiy, Ye. V.; Latsh, V. V.; Minayev, N. G.

TITE: The influence of nickel on the sinterability of pressed powders of tungsten and molybdenum

CITED SOURCE: Tr. Kuyby*shevsk. aviats. in-t, vy*p. 16, 1963, 141-148

TOPIC TAGS: powder metallurgy, nickel, tungsten, molybdenum, material strength, heat-treatment

TRANSLATION: Research was conducted on the influence of Ni on sintering in an atmosphere of H₂ and in vacuum Mo and W in a range of 1,100-2,000 degrees for Mo and 1,100-2,500 for W, with a nickel content of 0.01-10% by weight. Density (P), microstructure, microhardness, and the parameters of the crystal network of the first phase were studied. An increase in the density of the sintered Mo with an inclusion of 0.5-1% Ni takes place as low as 1,100 degrees. At 1,300 degrees, the porosity of the samples with the above nickel content amounts to 10%. At 1,500 degrees, the effectiveness of the influence of small inclusions of Nickel on the sinterability

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ACCESSION NR: AR4018314

of Mo decreases considerably. The curves of function P of sintered W with the nickel content has a maximum equal to a 0.25% nickel content. After sintering at 1,500 degrees, the W with an admixture of 0.25-0.5% nickel amounts to 5-7%. The inclusion of nickel also leads to an increase in the microhardness of W from 250 to 600 kg/sq cm, and the microhardness of Mo from 150 to 500 kg/sq cm. The liquifiability of nickel at 1,500 degrees is 0.3 atmospheric % in W and 1 atmospheric % in Mo. At sintering temperatures of 1,350 degrees for Mo, and 1,495 degrees for W, and a nickel content greater than 0.5% for Mo and 0.25% for W, an oozing out of the Nickel phase is observed, accompanied by a decrease in hardness of the samples during sintering in 112.

SUB CODE: MM

ENCL: 00

Card 2/2

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(NOLUENE rel. cpds.)

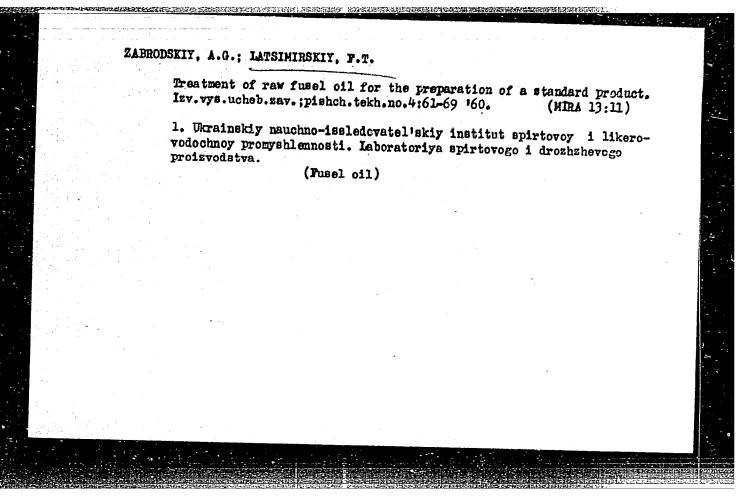
(ALDEHTDES toxicol.)
(SERINE rel. cpds.)
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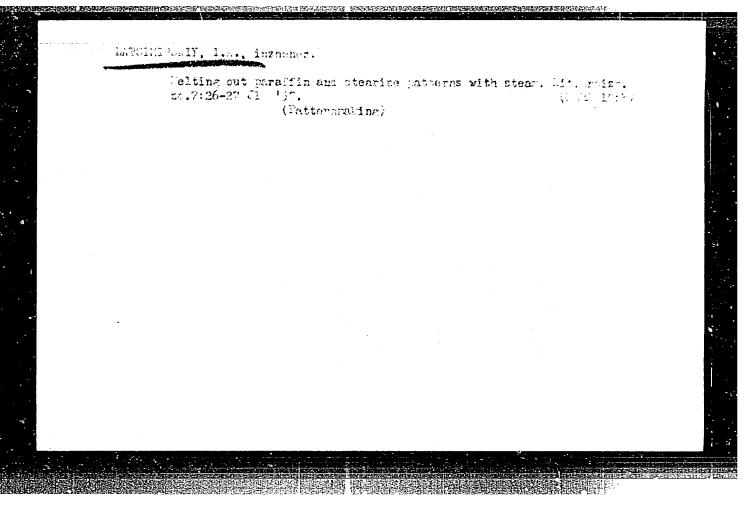
LATSIKOV, A., predsedatel'; TARTYCHNYY, Yu., direktor.

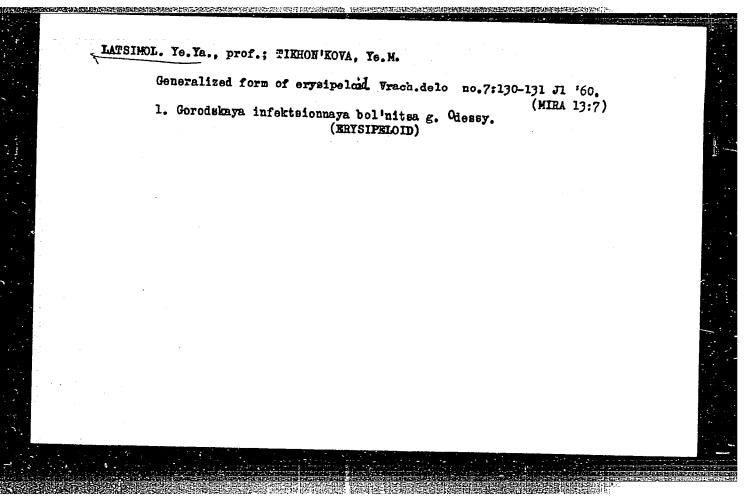
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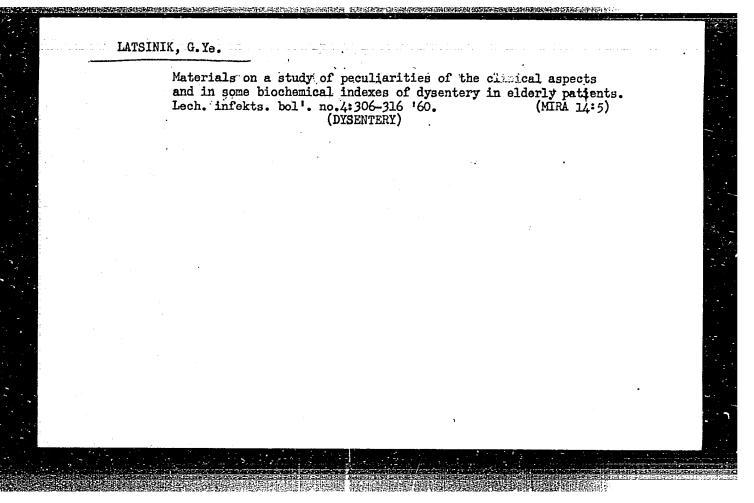
1. Chair of medical radiobiology and Chair of infectious diseases,
Central Institute for Postgraduate Training of Physicians, Moscow.

(FAT) (ABSORPTION (PHYSIOLOGY)) (IODIEM-ISOTOPES)

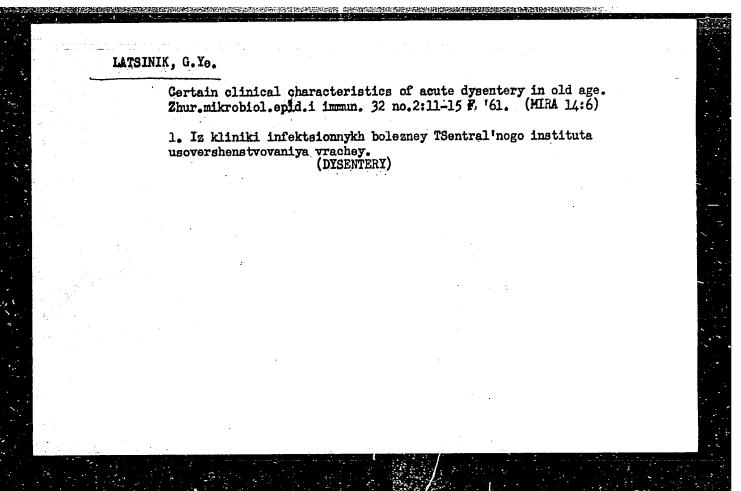
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Kaz. med. zhur. no.5137-40 S-0163 (MIRA 16:12)

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1. Of the Clinic for Infectious Diseases (Head--Prof.Ye.Ya. Latsinik), Odessa Institute for the Advanced Training of Physicians, Odessa.

